Inquiry Lesson Assignment

The second lesson you need to prepare is an inquiry-based lesson. A critical component of this lesson is for you to discuss how this lesson meets the criteria for inquiry as specified in the *National Science Education Standards*. The **rationale** you write for this lesson should discuss why you designed the lesson in the manner you did and should reference class readings and discussion to provide support for your design decisions.

The shaded elements below are unique to the inquiry lesson.

What to include in your inquiry lesson plan:

- Title
- Grade level
- Lesson Overview
- Learning outcomes
    - Learning Performances
    - Links to standards
- Students' Prior Knowledge of Experience
- Establishing Purpose
- Materials needed
- Time required
- Instructional sequence
    - Introducing the lesson
    - Instructional Activities
        - ♣ Possible ways to make the lesson inquiry-based.
            - Make Predictions
            - Students ask and refine questions
            - Design of the investigation
            - Collect data
            - Use scientific instrumentation
            - Analyze data
            - Draw conclusion, writing scientific explanation
            - Communicate findings in some ways
    - Concluding the lesson
- Assessing Student Understanding
- Student Resources
- Cautions
- Challenges in carrying-out the investigation.

The rationale

A brief discussion of why this is an inquiry lesson and why you designed the lesson in the manner you did. Be sure to justify your plans by relating them to how students learn, and to what the *National Science Education Standards* say about classroom inquiry.

Due: All inquiry lessons should be posted on uriteacherknowledge by 11/5